MOTOROLA
intelligence everywhere™

INTRODUCING THE ALPHA SERIES PORTABLE TWO-WAY RADIOS

MODERN, EFFICIENT AND EXCEPTIONAL VALUE

The Motorola Alpha Series comprises the P020 (reduced keypad version) for general users and the P030 (full keypad version) for those with more sophisticated requirements. Both offer an affordable way to enhance operational efficiency.

Feature-rich and excellent value for money, the compact and ergonomically-designed Motorola Alpha Series two-way radios offer excellent audio quality with reduced background noise. Easy to use, the Alpha Series is designed for businesses that want to stay in touch with a mobile workforce and be in control of their operations.

Radio is the tool of choice, particularly in areas that have unreliable or non-existent cellular phone network coverage. And unlike cellular telephones, two-way radio usage is not billed on an airtime basis thus providing an economical communications solution.

PROVEN TECHNOLOGY

A proven asset for a wide range of operations, the cost-effective Alpha Series radios come with Motorola's reliability and quality standards. Built to exacting industry standards, including Motorola's rigorous 5 year Accelerated Life Testing, the P020 and P030 have been designed to withstand harsh industrial usage.

PRODUCTIVITY-BOOSTING FEATURES

The Alpha Series offers a wide range of features that help to manage and control operations with ease.

Compact, Lightweight and Ergonomically Designed

Designed with a modern, ergonomic style to facilitate better handling.

99 Channels

Ideal for operations with a large group of users, this allows for 99 different talk groups which can be organised to reflect the way that the teams need to work.

Front Panel Programming

Alpha Series radios are easily programmable through their front panel buttons. This feature offers the flexibility of customising and resetting radios in the field without the need for software or a computer interface.

PMLN4467 Soft Leather Carry Case

MDPMTN4052 Standard Charger UK plug

MDPMTN4053 Standard Charger US plug

Extended Battery Life & Battery Saver Mode
Motorola Original batteries allow up to eight hours of talktime.* When on standby the radio runs in battery-save mode and the low battery alert warns users to charge the battery. Activate the "talkaround" function and save power by avoiding unnecessary use of repeater. Extend battery life for up to four hours more by activating "Economy Low" battery saver mode when users are in close proximity.
*(*Assuming 5% of time transmit, 5% receive and 90% standby.)*

More Private Lines
Set up talkgroups with unique Private Lines to prevent unwanted conversations on the same frequency. Alpha Series radios have 128 different private lines for increased communications flexibility.

Selective Call
This allows a single user to be called directly and communicate one-to-one without disturbing the team. User-customised speed dials can be programmed into the radio.

Telephone Interconnect
The P030 also supports DTMF signaling for telephone interconnect when supported by an appropriate interface.

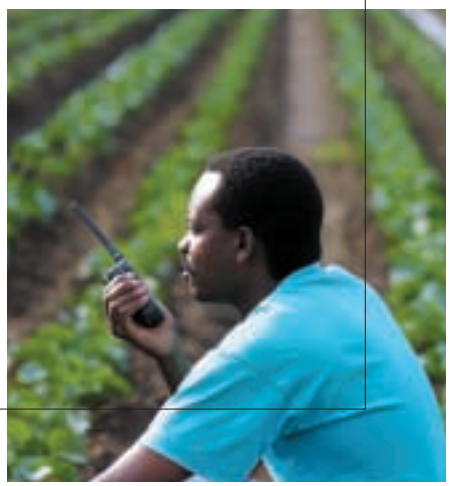
User-friendly Navigation
Two navigation buttons allow the user easy menu access. Four programmable buttons can be customised for quick access to eight commonly-used features.

Alpha-numeric & Iconic Display
Including battery and signal strength indicators. Text and number displays such as channel number and alias for enhanced user experience.

Prime Channel and Priority Scan
Set the most frequently-used channel as the default channel to avoid missing important messages. The Prime Channel is checked most often for activity when Priority Scan is activated.

ADDITIONAL FEATURES

- Busy Channel Lockout
- Nuisance Channel Delete
- Backlight
- Receive-only Channel
- Variable Time-out Timer



A proven asset for a wide range of operations, the cost-effective Alpha Series radios come with Motorola's reliability and quality standards.

DPMTN4049 Rapid Single Unit harger (Euro Plug)

4285820Z01 Shoulder Strap

PMNN4046 Standard NiMH battery

JMZN4020 Radio Handstrap

MDPMN Speaker

DESIGNED FOR BUSINESS, THE ALPHA SERIES IS PARTICULARLY USEFUL IN THE FOLLOWING SECTORS:

RETAIL, HOSPITALITY AND TOURISM

Discreet, lightweight and highly portable to enhance customer service, site and guest security and co-ordinate inter-departmental operations. Keep the message in the team with a Motorola Original audio accessory.

MANUFACTURING

Keep the production line moving with clear communication, even under noisy plant conditions. Motorola radios help to reduce downtime through equipment breakdown alerts, facilitate better staff co-ordination and enhance plant safety and security with fast response to emergencies.

CONSTRUCTION

For the highest levels of efficiency and safety, the rugged and compact P020 and P030 are built with the harsh worksite environment in mind. Co-ordinate on-site manpower and resource deployment, access work partners immediately and enhance work site security to minimise theft and accidents. Talk to the whole team at once to communicate an urgent message.

MN4008 Remote Microphone

MDPMLN4444 Earphone Boom Microphone and in-line PTT

MDPMLN4442 Earbud with in-line Microphone and PTT

Motorola turns the P020 and P030 from radios into a communications solution with a comprehensive range of newly-designed and cost-effective accessories. Enhance operational productivity with Motorola Original headsets, micro-phones, batteries, chargers and carrying cases.

The Alpha Series can be programmed to be used in hands-free or voice-activated (VOX) mode with a compatible accessory, leaving the user's hands free to work.

Battery	
PMNN4046	– NiMH battery (high capacity)
Dimensions (H x W x D)	– 115.5mm x 56mm x 18mm (22mm top)
Weight	– 159g

Chargers		
Single Unit Chargers/Transformers	– Slow rate (16 hours)	– Plug directly into radio
MDPMTN4053	– Standard Charger, US plug, 110V	
MDPMTN4047	– Standard Charger, Euro plug, 230V	
MDPMTN4052	– Standard Charger, UK plug, 230V	
Single Unit Chargers	– Rapid rate (90 minutes)	
MDPMTN4048	– Rapid Charger, US plug, 110V	
MDPMTN4049	– Rapid Charger, Euro plug, 230V	
MDPMTN4050	– Rapid Charger, UK plug, 230V	

MAG ONE Audio Accessories	
MDPMLN4442	– Earbud with in-line Microphone/PTT/VOX switch
MDPMLN4443	– Ear Receiver with in-line Microphone/PTT/VOX switch
MDPMLN4444	– Earphone Boom Microphone and in-line PTT/VOX switch
MDPMLN4445	– Ultra Lightweight Headset with in-line PTT/VOX switch
MDPMMN4008	– Remote Speaker Microphone

Carrying Accessories	
PMLN4467	– Carrying Case, Soft Leather (black)
PMLN4468	– Holster Case, Neoprene (grey)
4285820Z01	– Shoulder Strap
HLN9844	– Spring Belt Clip, for 3.8 cm belts
JMZN4020	– Radio Handstrap

MDPMLN4445 Ultra Lightweight Headset with in-line PTT

MDPMLN4443 Ear Receiver with in-line PTT

Motorola Original accessories are built to the highest standards and engineered to ensure maximum radio performance.

The essential communications tools for today's business

Technical Specifications

Portable Military Standards 810 C, D and E		
Applicable MIL-STD	***Methods***	***Procedures***
High Temperature	501.3	1
Low Temperature	502.3	1 & 2
Temperature Shock	503.3	1
Solar Radiation	505.3	1
Humidity	507.3	3
Salt Fog	509.3	1
Dust	510.3	1
Vibration	514.4	1

Accelerated Life Testing
Stringent Motorola Accelerated Life Testing simulating five years of hard use in real life, EIA RS-316B in shock, vibration, dust & humidity. IPX4 for Sealing. Tested for resistance to spray water from all directions.

MIL-STD 810 C, D and E
Stamp of approval from the U.S. Military for use in rough environments.

General	VHF	UHF
Frequency Range	136 - 174 MHz	403-440 MHz 435-480 MHz
Channels	99	
Operating Temperature Range	-30°C... to +60°C (Radio) -20°C... to +60°C (With NiMH battery)	
Dimensions (H x W x D)	115.5mm x 56mm x 35mm (38mm top) with NiMH battery	
Weight	191 g (without battery), 350g (with battery)	

Transmitter	VHF	UHF
RF Power	~ 0.1/1/5 W	~ 0.1/1/4 W
Channel Spacing	12.5 / 25 kHz switchable	
Spurs and Harmonics	63dB	
Frequency Stability	± 2.5ppm	
FM Hum and Noise	40dB	
Modulation Limiting	+/- 5kHz (25kHz) / +/- 2.5kHz (12.5kHz)	
Audio Response (from 6dB/oct. Pre-Emphasis, 300 to 3000Hz)	+1, -3dB	
Audio Distortion @ 1kHz tone, 60% rated max dev.	<5%	

Receiver	
Channel Spacing	25 kHz / 12.5 kHz
Sensitivity (12dB SINAD)	0.25µV
Selectivity (EIA)	65dB / 60dB
Intermodulation (EIA)	65dB / 60dB
Spurious Rejection	65dB / 60dB
Audio Distortion	<5%
Hum and Noise	40dB
Conducted Emission	-57dBm
Audio Output @ <5% Distortion (7.5V / room temperature)	500mW into 24 Ohm

All specifications shown are typical and subject to change without notice.

Portable Military Standards 810 C, D and E

Applicable MIL-STD Methods Procedures

- ISO 9001 Standard – Compliance with ISO 9001, an international quality system assurance on design, development, production, installation and servicing of a product.

For more information contact your local Motorola authorised two-way radio dealer:

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